

KENWOOD

KGC-4042A

GRAPHIC EQUALIZER INSTRUCTION MANUAL

EGALISEUR GRAPHIQUE MODE D'EMPLOI

GRAPHIC EQUALIZER BEDIENUNGSANLEITUNG

GRAFISCHE TOONREGELING GEBRUIKSAANWIJZING

EQUALIZZATORE GRAFICO ISTRUZIONI PER L'USO

ECUALIZADOR GRAFICO MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new electronic graphic equalizer.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KGC-4042A Serial number _____

SAFETY PRECAUTIONS

⚠ WARNING

To prevent fire and avoid personal injury in case of accidents.

- When extending the power supply or ground lead, avoid short circuits by using 0.75mm² (AWG18) or larger automotive grade cable.
- Check to be sure that no metal objects (tools, needles, coins) are left inside the unit.
- If you smell or see smoke, disconnect the unit immediately and consult your KENWOOD dealer. Continued use can cause a fire or permanent damage to the unit.

⚠ CAUTION

To keep the unit in proper working order

- Be sure it's connected to a 12V DC power supply with a minus ground connection.
- Do not open front panel or top or bottom cover.
- Do not expose this unit to direct sunlight or high heat.
- Keep it clean and dry.
- Be sure it is fastened securely and not exposed to excess vibration.

NOTE

- If you have difficulty in installing this unit in your vehicle, please contact your KENWOOD dealer.

Cleaning

1. Always turn the power OFF before cleaning.
2. Wipe the front panel and other exterior surfaces with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.

⚠ CAUTION

- DO NOT use abrasive pads or paint thinner, benzene or other volatile solvents. These may remove the indicator characters.

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FEATURES



- **Graphic equalizer (p.5)**

Allows level adjustment of five frequency bands centered around 50 Hz, 200 Hz, 800 Hz, 3.2 kHz and 12.8 kHz. For the 50 Hz and 200 Hz bands, levels can be adjusted between -18 dB and +18 dB. For the 800 Hz, 3.2 kHz and 12.8 kHz bands, levels can be adjusted between -12 dB and +12 dB.

- **Sub-woofer system (p.6)**

This system controls the output level and cut-off frequency of your sub-woofers.

- **Fader (p.7)**

Allows you to adjust the balance of front and rear speakers.

- **Selectable illumination (p.9)**

Allows illumination color to be switched between green and orange.

GRAPHIC EQUALIZER

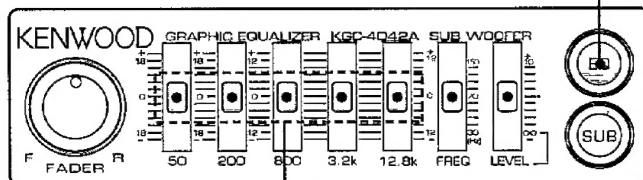
To turn the graphic equalizer ON

- Press the Graphic equalizer button.
(The Graphic equalizer level knob indicator will light up, indicating that the output sound has been adjusted with the graphic equalizer.)



To turn the graphic equalizer OFF

- Press the Graphic equalizer button.
(The Graphic equalizer level knob indicator will go out indicating that the graphic equalizer has been turned off.)



Level adjustments

To increase level

- Slide up the Graphic equalizer level knob for the frequency band you wish to adjust.
(You can increase the 50 Hz and 200 Hz bands by up to 18 dB, the 800 Hz, 3.2 kHz and 12.8 kHz bands by up to 12 dB.)

To lower level

- Slide down the Graphic equalizer level knob for the frequency band you wish to adjust.
(You can lower the 50 Hz and 200 Hz bands by up to -18 dB, the 800 Hz, 3.2 kHz and 12.8 kHz bands by up to -12 dB.)

SUB-WOOFER SYSTEM

To turn the sub-woofer system ON

- ▶ Press the Sub-woofer button.
(The Sub-woofer level knob and the Sub-woofer frequency knob indicators will light up. You will hear sub-woofer output.)



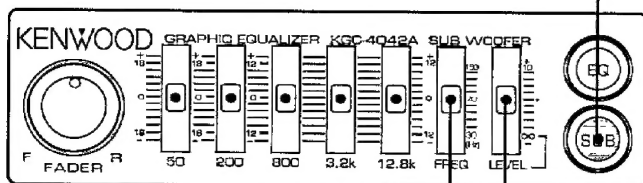
ON

To turn the sub-woofer system OFF

- ▶ Press the Sub-woofer button.
(The Sub-woofer level knob and the Sub-woofer frequency knob indicators will go out. Sub-woofer output will cease.)



OFF



To change cut-off frequency

To increase the cut-off frequency

- ▶ Slide up the Sub-woofer frequency knob.
(You can increase the cut-off frequency by up to 150 Hz.)

To lower the cut-off frequency

- ▶ Slide down the Sub-woofer frequency knob.
(You can lower the cut-off frequency by up to 30 Hz.)

To change sub-woofer level

To increase the sub-woofer level

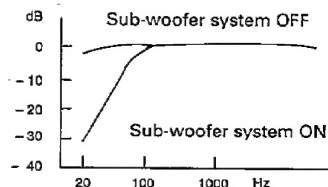
- ▶ Slide up the Sub-woofer level knob.
(You can increase the sub-woofers' level by up to 10 dB.)

To lower the sub-woofer level

- ▶ Slide down the Sub-woofer level knob.
(You can lower the sub-woofers' level infinitely until sub-woofer output is off.)

NOTE

- When the sub-woofer system is turned on, it will automatically cut off front and rear speaker output that would overlap with sub-woofer output (below 100 Hz).



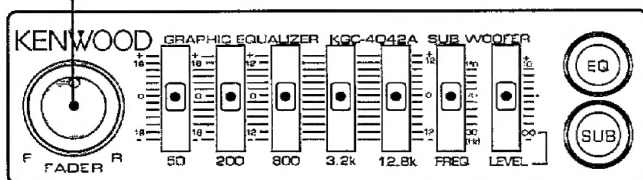
Front/Rear output characteristics curve

To punch up the front speaker output

- Rotate the fader control knob counterclockwise (to the left).

To punch up the rear speaker output

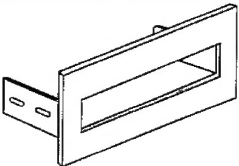

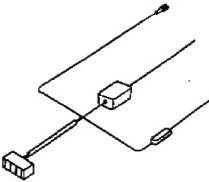



- Rotate the fader control knob clockwise (to the right).



NOTE

- To prevent sub-woofer spillover to front and rear, the fader does not affect sub-woofer output.

ACCESSORIES

Part Name	External View	Number of Items
Panel frame		1
Bracket		2
Wiring harness		1
Pan head screws (M3 × 6)		4
Self-tapping screws (φ4 × 16)		4
TP screw (M3 × 6)		1

INSTALLATION PROCEDURE

INSTALLATION

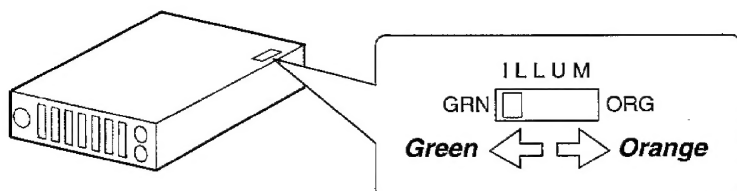
- ① Before starting installation, disconnect the negative (-) terminal of the battery. This will prevent short circuits.
- ② Connect the Input and Output leads (see p.10).
- ③ Connect the Ground lead (Black) to the metal body of the car (see p.10).
- ④ Connect the Power supply lead (Yellow) (see p.10).
- ⑤ Install the unit in the car (see p.11).
- ⑥ Connect the negative (-) terminal of the battery.

⚠ CAUTION

- A short circuit may cause a blown fuse. A short circuit is a serious problem that could also cause a fire. Check the wiring carefully and, if any wires are short-circuited, rewire immediately. If no short-circuits are found, replace the fuse with one having the same rating (see indication in fuse box).
- Check that unconnected wires or connectors are in contact with the body of the car. Extraneous noise or current entering the system can cause malfunction or damage.

■ Selectable Illumination

As indicated in the illustration, the Illumination slide switch on the top of the unit can be used to select either orange or green indicator lights.

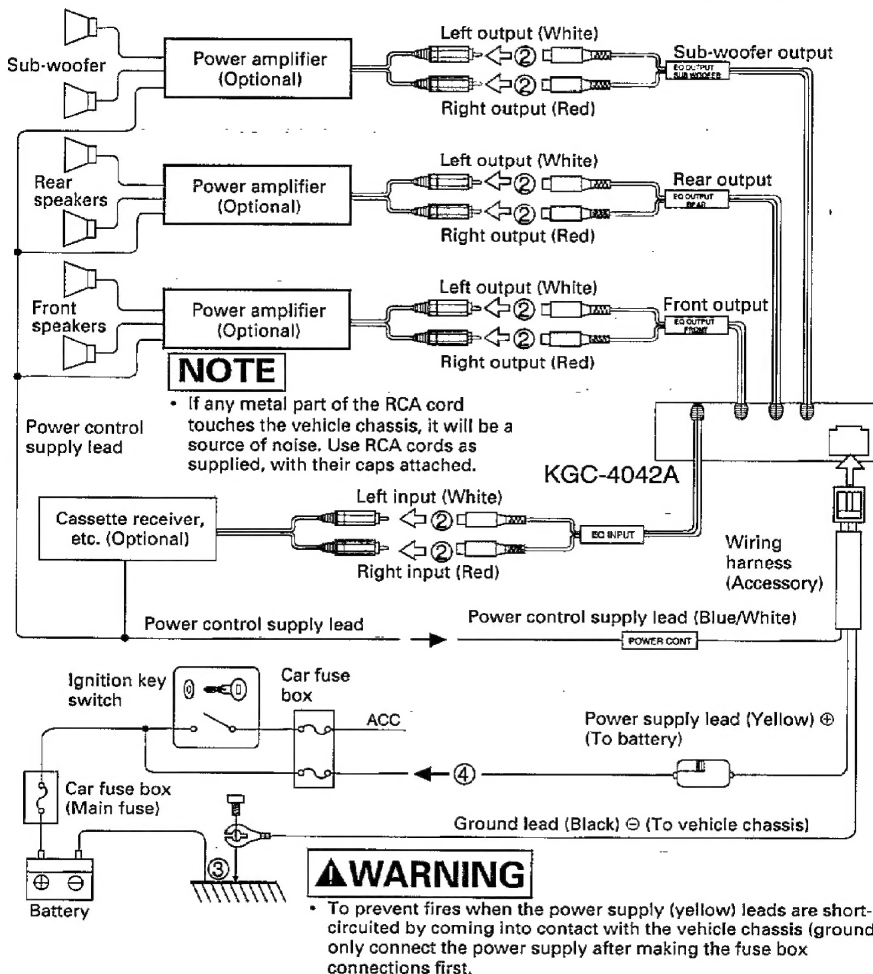


NOTE

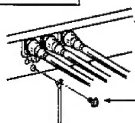
- The color of the front panel knobs cannot be changed.

CONNECTIONS

* Circled numbers indicate the procedures described on page 9.



NOTE

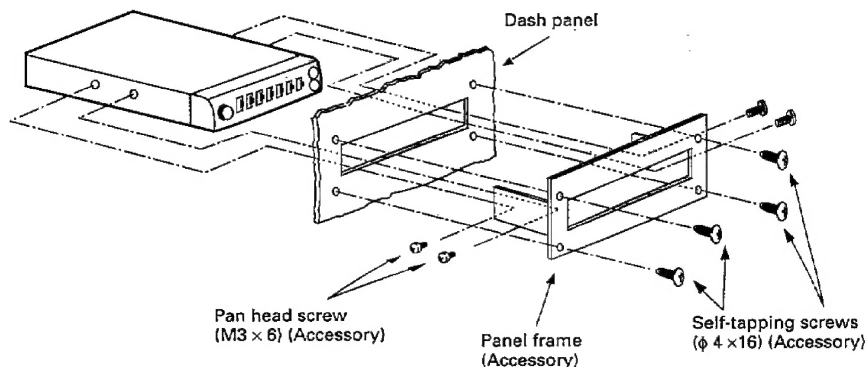


TP screw (M3x6)
(Accessory)

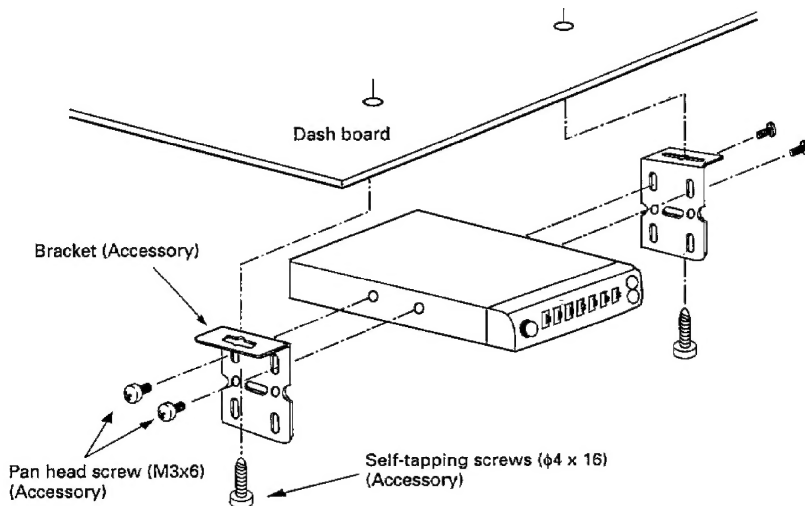
- When an optional RCA extension cord is used as a ground wire, attach it to the back of the unit using the TP screw (M3x6) supplied with it.

- Before installation, select a location in which the unit can be operated safely and easily.
- Use only the accessories supplied with the unit.

■ Installation in dash panel



■ Installation under the dash board



TROUBLESHOOTING GUIDE



Often, what appears to be a malfunction is due to user error. Before calling for service, please consult the following table.

Symptom	Cause	Remedy
Power cannot be switched ON.	<ol style="list-style-type: none">1. The back up fuse is blown. The fuse on another unit to which the equalizer is connected is blown.2. The equalizer is not connected to the power supply.	<ol style="list-style-type: none">1. After checking for short circuits, replace the blown fuse. Be sure the new fuse has the required capacity.2. Connect the power supply.
Sound is not heard from the front or rear speakers.	The fader is turned fully to front or rear.	Turn the fader control knob to the front/rear balance you prefer.
There is no sound from any speakers.	<ol style="list-style-type: none">1. A speaker, power or preout connection is loose.2. The center unit's prefader control is set to its minimum setting.	<ol style="list-style-type: none">1. Make sure that all connections have been properly made.2. Set the center unit fader to a medium position.
You can't hear low frequencies.	The Sub-woofer system is ON with no sub-woofers installed.	Turn OFF the Sub-woofer system.

Specifications subject to change without notice

11
4
6
9

Equalizer

Equalizer Center Frequencies 50 Hz, 200 Hz, 800 Hz, 3.2 kHz, 12.8 kHz
Equalization Range 50 Hz, 200 Hz: -18 to +18 dB
800 Hz, 3.2 kHz, 12.8 kHz: -12 to +12 dB

Sub-Woofer System

Cut-off Frequency 30 to 150 Hz (variable)
Output Gain -∞ to +10 dB
Cut-off Slope 12 dB/oct.

Audio Characteristics

Input Impedance 10 kΩ
Output Impedance 600 Ω
Signal to Noise Ratio 100 dB
T.H.D. 0.01%
Frequency Response (-3 dB) 10 Hz to 60 kHz
Gain 0 dB

General

Operating Voltage 14.4 V (11-16 V)
Max. Current Consumption 0.18 A
Installed Size 89 × 25 × 130 mm
(3-1/2 × 1 × 5-1/8 in)
Weight 0.4 kg (0.9 lb)

KENWOOD